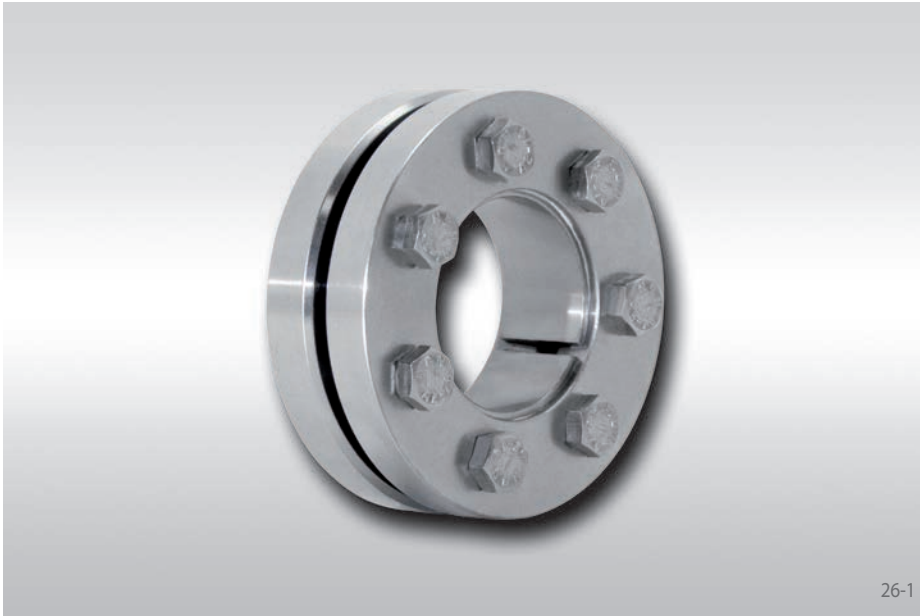


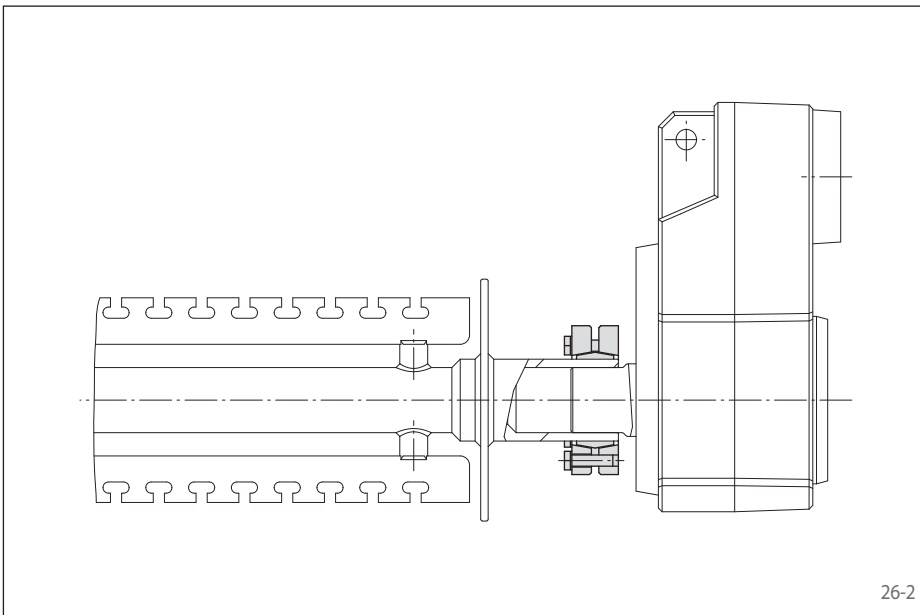
Shrink Discs RLK 603 K

three-part design
corrosion-resistant in stainless steel



Features

- High torque capacity
- Transmissible torque of 170 Nm up to 23 000 Nm
- Tightening of clamping screws with a torque wrench
- Easy disassembly without jacking screws
- Centres the hollow shaft or hub to the shaft
- For hollow shafts or hubs with outer diameters of 24 mm up to 175 mm
- All parts in rust-free stainless steel
- High corrosion resistance
- Screws DIN 931/933 grade A2-70
- Lubricated with H1-registered grease



Application example

Adjustable in the direction of rotation, the Shrink Disc RLK 603 K ensures a backlash free connection of a stirring hook, which is used in a screening system for bakery products, to the gear drive. The use of a stainless steel material permits regular cleaning of the complete unit with cleaning fluids.

Transmissible torques and axial forces

The transmissible torques or axial forces listed on the following two pages are subject to the following tolerances, surface characteristics and material requirement. Please contact us in the case of deviations.

Tolerances

d _w		Hollow shaft bore ISO	Shaft ISO	Joint clearance max. mm
> mm	≤ mm			
6	10	H6	j6	0,011
11	18			0,014
19	30			0,017
31	50	H6	h6	0,032
51	80	H6	g6	0,048
81	120	H7	g6	0,069
121	180			0,079
181	250			0,090
251	315			0,101
316	400			0,111
401	500			0,123

Other fits may be selected, provided the joint clearance between the shaft and the hollow shaft remains within the indicated ranges.

Surfaces

Average surface roughness at the contact surfaces between the shaft and the hollow shaft $R_z = 10 \dots 25 \mu\text{m}$.

Materials

The following apply to the shaft and the hollow shaft:

- Yield strength $R_e \geq 300 \text{ N/mm}^2$
- E-module ca. 200 kN/mm^2

Installation

Please request our installation and operating instructions for Shrink Discs RLK 603 K.

Simultaneous transmission of torque and axial force

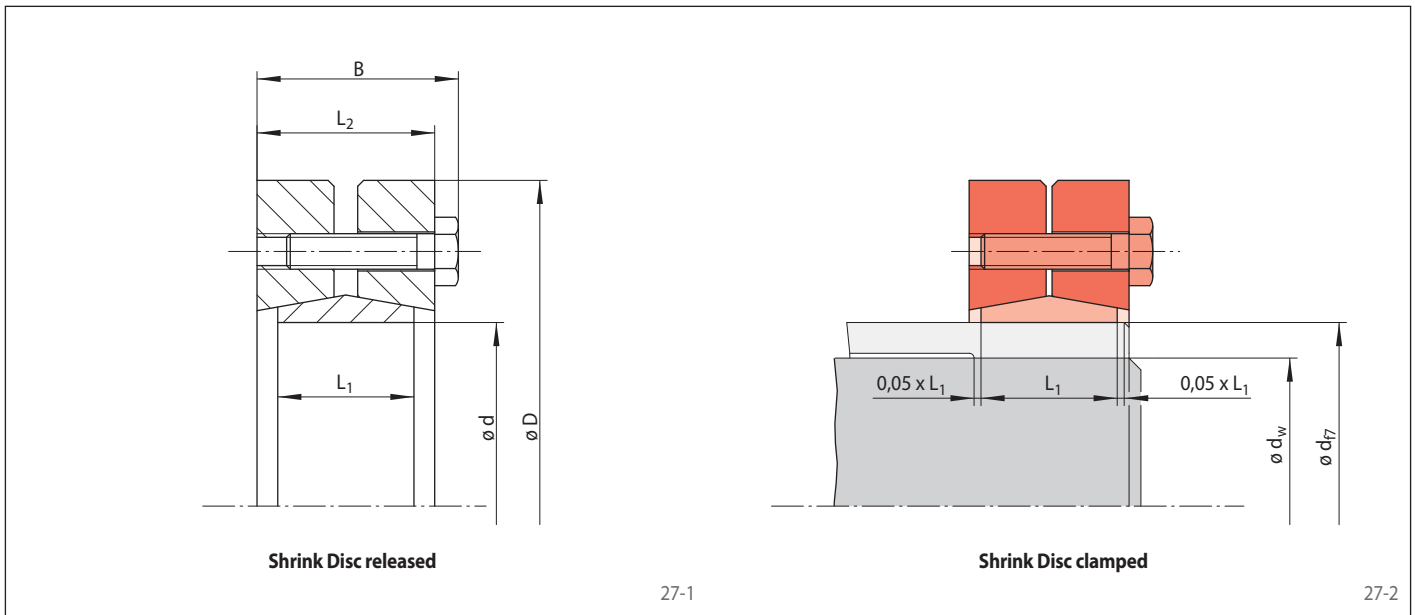
The transmissible torques M which are shown in the tables apply for axial forces $F = 0 \text{ kN}$ and conversely, the indicated axial forces F apply to torques $M = 0 \text{ Nm}$. If torque and axial force are to be transmitted simultaneously, the transmissible torque and the transmissible axial force are reduced. Please refer to the technical points on page 29.

Example for ordering

Shrink Disc RLK 603 K for hollow shaft with an outer diameter $d = 100 \text{ mm}$:

- RLK 603 K-100
Article number 4200-100310-000000

three-part design
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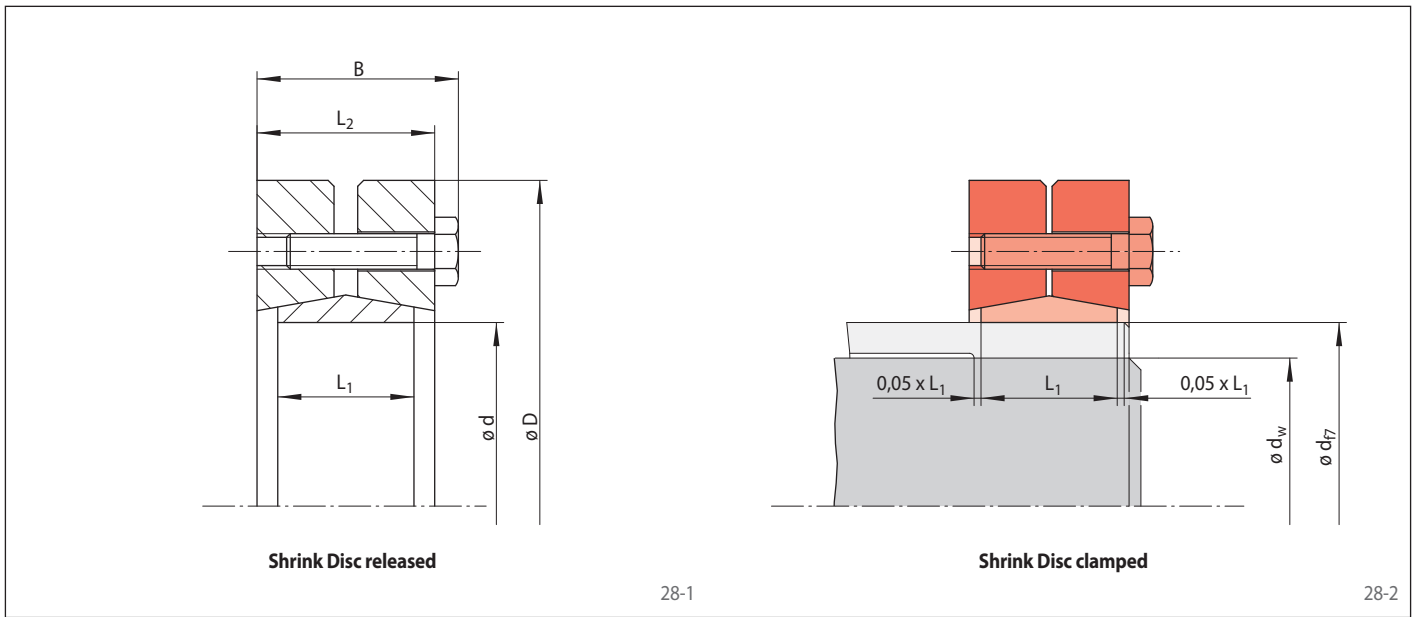


Dimensions						Technical Data							Article number
Size d mm	D mm	B mm	L ₁ mm	L ₂ mm	d _w * mm	Transmissible torque or axial force		Spannschrauben				Weight kg	
						M Nm	F kN	Tightening torque M _s Nm	Number	Size	Length mm		
24	50	21,5	14	18	19	170	18	3,9	6	M 5	16	0,19	4200-024310-000000
					20	200	20						
					21	240	22						
30	60	23,5	16	20	24	200	16	3,9	7	M 5	18	0,29	4200-030310-000000
					25	220	18						
					26	240	19						
36	72	26,0	18	22	28	260	18	6,8	5	M 6	20	0,47	4200-036310-000000
					30	330	22						
					31	350	23						
44	80	28,0	20	24	34	350	22	6,8	7	M 6	20	0,6	4200-044310-000000
					35	440	25						
					36	480	27						
50	90	31,0	22	27	38	530	28	6,8	8	M 6	22	0,8	4200-050310-000000
					40	620	31						
					42	730	35						
55	100	33,0	23	29	42	680	32	6,8	8	M 6	25	1,1	4200-055310-000000
					45	850	37						
					48	1050	45						
62	110	33,0	23	29	48	1000	43	6,8	10	M 6	25	1,3	4200-062310-000000
					50	1200	50						
					52	1350	52						
68	115	33,0	23	29	50	1100	45	6,8	10	M 6	25	1,3	4200-068310-000000
					55	1400	51						
					60	1750	57						
75	138	36,3	25	31	55	1300	48	16	7	M 8	25	2,2	4200-075310-000000
					60	1700	53						
					65	2050	64						
80	145	36,3	25	31	60	1700	53	16	7	M 8	25	2,4	4200-080310-000000
					65	2050	64						
					70	2350	69						
85	155	43,3	30	38	60	2400	70	16	10	M 8	30	3,4	4200-085310-000000
					65	2450	72						
					70	2500	74						
90	155	43,3	30	38	65	2550	75	16	10	M 8	30	3,3	4200-090310-000000
					70	3200	91						
					75	3800	101						
95	170	48,3	34	43	65	2600	76	16	12	M 8	35	4,6	4200-095310-000000
					70	2800	94						
					75	3100	102						
100	170	48,3	34	43	70	3300	96	16	12	M 8	35	4,4	4200-100310-000000
					75	4000	107						
					80	4800	117						
110	185	55,4	39	49	75	3900	103	32	9	M 10	40	5,9	4200-110310-000000
					80	4800	119						
					85	5600	130						

* The shaft diameters d_w listed in the table are selected examples. For other shaft diameters d_w see the technical specifications on page 29.

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Dimensions						Technical Data							Article number
Size d mm	D mm	B mm	L ₁ mm	L ₂ mm	d _w * mm	Transmissible torque or axial force		Spannschrauben			Gewicht kg		
						M Nm	F kN	Tightening torque M _s Nm	Number	Size		Length mm	
125	215	59,4	42	53	85	5 900	136	32	12	M 10	40	8,7	4200-125310-000000
					90	7 000	152						
					95	8 100	168						
130	215	59,4	42	53	90	6 500	141	32	12	M 10	40	8,4	4200-130310-000000
					95	7 800	163						
					100	9 200	184						
140	230	65,5	46	58	95	8 100	171	55	10	M 12	45	10,0	4200-140310-000000
					100	9 300	187						
					105	11 000	209						
165	290	78,0	56	68	115	17 000	292	135	8	M 16	55	21,0	4200-165310-000000
					120	19 000	319						
					125	21 000	346						
175	300	78,0	56	68	125	18 500	297	135	8	M 16	55	21,0	4200-175310-000000
					130	21 000	319						
					135	23 000	346						

* The shaft diameters d_w listed in the table are selected examples. For other shaft diameters d_w see the technical specifications on page 29.